REMARKS

Claims 1-27 are pending. Claims 1, 11-13 are independent claims. No new matter has been added. Claims 1, 7, 11-13, 19 and 23-27 are rejected under 35 U.S.C. § 102(b) as allegedly being anticipated by Yamamoto et al. (USP 4,883,834). Claims 2, 4-6, 14, and 16-18 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Yamamoto in view of Wycech (USP 5,755,486). Claims 3 and 15 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Yamamoto in view of Wycech and further in view of Kawasaki et al. (USP 5,782,730). Claims 8-9 and 20-21 were rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Yamamoto in view of Wycech and further in view of Rowland et al. (USP 4,692,513). Finally, Claims 10 and 22 were rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Yamamoto in view of Wycech and Kawasaki and Rowland and Bagga (USP 5,021,513). Applicants respectfully traverse these rejections.

Interview Summary

Applicants thank Examiner Patterson for granting their counsel an in-person interview on Wednesday, January 21, 2009, to discuss the merits of the pending application. The participants of the interview, including Examiner Patterson, and attorneys Kennedy and Ciesliga, discussed the claimed invention and the cited references, along with proposed amendments. Counsel for Applicants brought supporting materials to the interview for their arguments in favor of patentability. Applicants file this summary, at least in part, to make those materials evidence of record.

It was noted in the interview that this application has been on appeal twice. The first appeal was dated 12/1/06. No Examiner's Answer was filed. The second appeal was dated 3/6/08. No Examiner's Answer was filed. This extensive procedural history has been a great expense to Applicants. This is why Applicants expressed a desire to have their claims reviewed by a third party other than the instant Examiner. Accordingly, Applicants requested that a Supervisory Examiner be present for the interview and that if a third appeal is necessary, then the Examiner file

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an Examiner's Answer to such third appeal so that the Board of Patent Appeals and Interferences could review the pending application. The Examiner denied Applicants access to a Supervisory Examiner during the interview that he granted, as was his right. The Examiner also indicated his belief that he would file an Examiner's Answer if the pending claims would be finally rejected and appealed for a third time.

Finally, no agreement with respect to the claims was reached by the participants.

35 U.S.C. § 102 Rejections

Independent claims 1 and 11-13 require, among other things, "from about 20-30% by weight of an SBS block co-polymer; from about 5-20% by weight polystyrene; from about 0.5-5% by weight of a rubber; and from about 30-45% by weight of an epoxy resin." Yamamoto does not disclose the claimed ingredients in combination with one another as "arranged in the claim" as required by Net MoneyIN, Inc v. Verisign, Inc., 545 F.3d 1359, 1369-1370 (Fed. Cir. 2008). As such, Yamamoto does not anticipate the pending claims.

Yamamoto discloses a primer composition essentially consisting of three components; including a resin obtained by graft-polymerizing a SBS block co-polymer, an epoxy compound, and a cross-linking agent. (Yamamoto Abstract). Yamamoto does not disclose polystyrene as a separate ingredient anywhere in the four corners of the patent, so it certainly does not disclose it in an amount of about 5-20% by weight. Accordingly, Yamamoto simply does not and cannot anticipate claims 1-27.

Furthermore, it is factually incorrect to say that because a composition is made up of X and Y that X and Y are also independently present along with that composition. This is because when X and Y form covalent bonds to one another, the resultant composition X—Y has properties that are different from X alone and Y alone. In simplified terms, in the pending claims, X is polystyrene, Y is polybutadiene and (X— $Y)_n$ is SBS block co-polymer. Polystyrene is different from SBS block co-polymer. For example, see the materials attached to this Response as Exhibit 1: excerpts from *Plastics Technology*, Processing Handbook & Buyer's Guide 2005/2006. In Exhibit 1, throughout

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the catalog, various physical properties are listed for each of the polymers presented. Such properties include *melt flow rate*, *tensile strength*, and *flex modulus*. (Exhibit 1, e.g., pg. G-202). The properties of polystyrene are very different from those of SBS block co-polymer. For example, the melt flow rate of polystyrene listed under the "Blow Molding, Extrusion and Injection Molding" section ranges from 1.4-4 g/10 min. (Exhibit 1, pg. G-202). The melt flow rate of SBS block co-polymer listed under the "Blow Molding, Extrusion and Injection Molding" section ranges from 7.5-11 g/10 min. (Exhibit 1, pg. G-211). As one of skill in the art understands, this is a substantial difference in range for this property. In another example, the tensile strength for polystyrene ranges from 7-7.6 yield at 1000 psi (Exhibit 1, pg. G-202), and from 3-3.7 yield at 1000 psi for SBS block co-polymer (Exhibit 1, pg. G-211). These substantial differences in ranges demonstrate that just because SBS block co-polymer may have polystyrene as a building block, this does not mean that SBS will exhibit similar properties that polystyrene exhibits on its own.

The pending application claims polystyrene, as a separate ingredient, in combination with the SBS block co-polymer and other ingredients. As illustrated in the examples, the polystyrene is a homopolymer that is combined with SBS block co-polymer and other ingredients. Since Yamamoto does not disclose these ingredients as claimed, then Yamamoto does not anticipate these claims.

With regard to claims 11-13 and 23-27, the compositions are required to have certain compression strengths and certain percent expansions. These physical traits are not inherent in the disclosure of Yamamoto because Yamamoto does not disclose a composition identical to the claimed composition, for at least the reasons described above.

Withdrawal of the 35 U.S.C. § 102 rejection of claims 1, 7, 11-13, 19 and 23-27 is respectfully requested.

35 U.S.C. § 103 Rejections

A. No *Prima Facie* Case Made Because The Combination Of Yamamoto And Wycech Does Not Teach Or Suggest All Of The Elements Of Applicants' Claims

The Examiner has failed to present a *prime facie* case of obviousness because the cited references, Yamamoto and Wycech, fail to teach or suggest all of the claimed limitations, as required under *KSR v. Teleflex*. The Examiner makes the argument that Yamamoto teaches SBS block co-polymer together with polystyrene and rubber and epoxy resin in the claimed ranges of weight percent. This is inaccurate. Yamamoto does not teach or disclose polystyrene as a separate ingredient as described above. Wycech does not cure this defect as it also does not teach or disclose or even mention the term "polystyrene" in the patent.

B. Even If Prima Facie Case Made, Applicant Has Rebutted The Prima Facie Case

It is not obvious to combine these ingredients together in the particular weight percentages found in the claims. Indeed, Applicants have found that the relative weight percentages of SBS block co-polymer with polystyrene and epoxy resin are important, and when used in an expandable composition, bring about an unexpected result.

In particular, polystyrene acts a sponge for both SBS and epoxy resin. In other words, SBS and epoxy resin compete with one another for solubility in polystyrene. If too much SBS is included in the formulation, it displaces the epoxy resin from the polystyrene, and the resulting formulation does not have the desired traits for an expandable reinforcer composition that can adhere to the surface of a structural member. Similarly, if too little SBS is included, the expandable reinforcer composition does not have the desired mechanical properties, such as compressive strength. Thus, a specific balance is required among the claimed ingredients. The claimed weight percentages are balanced to prevent too much leaking of epoxy resin out of the formulation by controlling the amount of SBS in the formulation relative to the epoxy resin. None of the specific weight percentages among the distinctly claimed ingredients, or the ratio of weight percentages of the claimed ingredients, are taught or suggested by the combination of Yamamoto and Wycech.

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Moreover, when the claimed formulation is expanded, Applicants achieved the surprising result that the particular combination of ingredients, in their relative amounts, led to a composition that both expanded to a high degree (80-220%) while maintaining such an unexpectedly high degree of compressive strength (at least about 1400 psi). (Specification, pg. 8, lines 9-19). As explained in earlier amendments and appeal briefs, this is surprising because one of skill in the art would expect that the more the composition expands, the less likely it would be able to maintain such a compressive strength. Applicants respectfully request withdrawal of the obviousness rejections of claims 2, 4-6, 14, 16-18.

C. The Combination Of Yamamoto, Wycech, Kawasaki, Rowland And Bagga Does Not Teach Or Suggest All Of The Elements Of Applicants' Claims

The Examiner rejected claims 3, 8-10, 15 and 20-22 under 35 U.S.C. §103 as allegedly being obvious over Yamamoto and Wycech, and in various combinations with Kawasaki, Rowland and Bagga. These rejections are respectfully traversed. For the reasons discussed above, which are hereby incorporated, Yamamoto and Wycech do not disclose all elements of independent claims 1 and 11-13, from which claims 3, 8-10, 15 and 20-22 ultimately depend. Combination with Kawasaki, Rowland and Bagga, alone or in combination, do not cure the deficiencies of Yamamoto, even if used in combination with Wycech. Thus, the combination of five independent references does not render obvious these claims. Accordingly, and for at least these reasons, Applicants respectfully request withdrawal of the obviousness rejections of claims 3, 8-10, 15 and 20-22.

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CONCLUSION

In view of the above amendment, Applicants believe the pending application is in condition for allowance. Applicants believe no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 18-0013, under Order No. 65765-0085 from which the undersigned is authorized to draw.

Dated: February 23, 2009

Respectfully submitted,

Electronic signature: /Linda D. Kennedy/

Linda D. Kennedy

Registration No.: 44,183

RADER, FISHMAN & GRAUER PLLC Correspondence Customer Number: 10291

Attorney for Applicant

Enc. – Exhibit 1

EXHIBIT 1

isupplement to Plastics technology Magazine November 2008 The <u>Omy</u> Magazine for plastice processors a gardner publication



PROCESSING LIANDBOOK BUYER GUIGE

FE/FE ALLOY (Continued)

INJECTION MOLDING (Continued)

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BLOW MOLDING AND INJECTION MOLDING

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•	Hivalloy G3067			<u> </u>	2 .	0.92	3	25	1.1	170:19
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•	Hivalloy G7072	GP.		35% GF	7		16.4		3.7	5 [295;2] 2 [320;30]

POLYSTYRENE—GENERAL PURPOSE BLOW MOLDING, EXTRUSION AND INJECTION MOLDING

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BLOW MOLDING AND INJECTION MOLDING

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POLYSTYRENE—GENERAL PURPOSE (Continued)

EXTRUSION (Confinued)

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	Styron 615APR	GP,TRP	<u> </u>			6.4	2	0.4	0.4	_;154	_
Huntsman Chemical		GP,HFL,BLN	<u>- 4:</u>	38		1.0		4.4	0.3	_;173	
ineos Styrenics	Polystyrene 145D	GP,HFL		14.	1.04		2:	4.5	0.3	_;185	
	Polystyrene 147F	GP,MFL	_	9	1.04	_ 3	0	4.5	0.3	_;191	
	Polystyrene 148G	GP,MOL,PKG		6	1.04		2	4.8	0.3		НВ
	Polystyrene 168 M	MED,TRP,HR		1.5	1.04	7.5	<u> </u>	5	0.4		НВ
Nova Chemicals	1200/1204	MOL,TEN:		1.6	1.04	7.6	<u> </u>	4.7	0.4:3333		НВ
	1210	HR,HMW		1:6	1.04	7.4		4.7	0.4		Ė
	1220/1230	MOL	<u></u>	1.9 .	1.04	7.4:1.1.	 - 	5	0.4	_;203	НВ
	1280/1290	MOL 321		1.6	1.04	7.6	<u> </u>	4.4	0.4	_;200	НВ
	1300/1301	MOL,HR,PKG		3.5	1.04	6.8	<u></u>	5	0.4324174	_;202	НВ
	1600	HR,MELAN COLOR		5:5	1:04		12:	4:4	0.4	_;180	L.
	2100	ESC,HR,PKG		3.5	1.04	6.6	10.1	5	0.4	_;195	НВ
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INJECTION MOLDING

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				8	1.05	, ·				_;190	
Amer. Polymers	API 390	1	<u></u>		1.05	7.8		4.5	0.3	_;180.	
	API 392	GP,TRP,HFL	<u>,</u>	12	1.05	14.6		3.6	0.3	_;180	_
	API 395	GP,THR,HFL	<u>-</u>	18		7.8	-	4.5	0.4	_;193	_
Chevron Phillips	MC-3100 -	THR	<u> </u>	3. ,	1.05	7.0	1.7	4.5	0.4	_;179 ,	_
	MC-3600	HFL		13	1.05	7		4.5	0.4	_;173	
	MC-3700	FR		19.	1.05	6	 -,	4.0	0.4	;190	HB
Dart Polymers	GPPS PS-108	HGL,TRP,MFL,OP	`	8	1.05	6.5		ļ -	-	_;162	НВ
	GPPS PS-118	FCY,TRP,HFL	·	18	1.05	5.5	-	 	0.4	-,102	
Della Polymers	GPPS-108	GP		8	1.04				0.4		╫
Dow Plastics	Retain PS-4000	RM,PKG,PCR		5.5	<u></u>	3.8.		3.3	1	_;188	
DOW FIRSHES		GP		9	1.04	6.7		4.6	0.3	203;186	
	Styron 612	GP		8.5	1.04	7		4.7.	0.3	200;179	HB
	Styron 666APR	GP,TRP,HR	 	1.5	1.04	7.5	·	4.5	0.4	210;184	HB ·
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	FPC 4	GP,THR	 	10	1.05	7.5	-		0.3		
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	FPC 6	GP,HFL	<u> </u>	22.5	1,05	+			0.3	_;168	1
	FPC 7	GP,TRP -		7.5	1.05	<u> </u>	<u> </u>	<u> </u>	10.0	150	, , , , , , , , , , , , , , , , , , ,

POLYSTYRENE—IMPACT (Continued)

INJECTION MOLDING (Continued)

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Maria de Caba	880 .	COL,GP,HI		3.5	1.04			4.5	0.4	_;200	
neos Styrenics	Polystyrene 446 C	MI,GP		14	1.04		50	2.4	3.2	;180	
ATI USA	Lastirol RV0	FB,HI,HFL		0.5-0			- - -	2.4	1.2	;192	
	Lastirol RV2	DS,FR,HI,HFL	- - -	0.2-0			2	2.9	1:5	_:144	
G Chemical	403AF	FR,WTR		9,5	1.06		. 2	4	1.3	;169	
	405AF.	FR		14			. 4	3.3	2.2	194;192	2
	407AF	FR		9	1.16	3.7	4	3.3	1.6	192;192	!
	40AF	FR,GP	- -	10	1.1	3.7	4	3.4	2.2	194;192	!
	478EF	FR	<u> </u>		1.16	. 3.7	 	3.1	2	196;194	1
	50IS	GP		12	1.04	3.7	4	3.4	2.2	183;183	-
	50IS-L	GP		7.5	1.03	3.8	5	3.1	1.9	196;189	ī
	60HR	HR ·		7.5	1.03	4	5	. 3.2	1:9	196;189	
and the second second	60HR-G	HR,HFL		4	1.03	4.1	5	3.1	2.4	199;194	_
	SF-510			5.5	1.03	3.8	5	3.1	2.4	199;194	_
	SG-910	HI,HFL		12	1.04	3.8	5	3.3	2.6	194;194	
	SG-960	HGL,HI .	<u> </u>	3.7	. 1.04	4:8	5	3.3	3.1	207;199.	-
- d	SG-970	HGL,HI	<u> </u>	5.5	1.04	5.1	. 5	3.6	2.4	196;194	
	SI-610	11dc'til	<u> </u>	6.5	1.04	5.3	5	3.7	2	196;194	
work Polymers	NPS90-0304	HI,HFL	-	6.5	1.04	3.8	5	3.1	3.8	205:199	_
	-	<u>-</u>		2.4	1.04	4.1	_	3.3	4	_:180	-
	NPS90-0645			3				2.1	3	_;172	
	NPS90-0802			8	1.04	2.7		2.8	1.9	_;178	-
in the second	NPS90-0820	HI		. 8	1.04			2.8	1.9	_;178	_
a Chemicals	NPS90-0827			8	1.04			2.9	2.7	_;178	÷
a Guenneais	4210/4214			3.5	1.04	5.2		4	1	_;192	
	4211			4	1.04	5.8		3.8	 	_:192	
	4501	Н		6.5	1.04	4.2	- -	3.5	1.2	;189	_
	5100/5104	HI,ST	·	2.7	1.04	3.9	1=-	3.4	1.5		÷
	5124	HGL,HI	_ ·	4.3	1.04	3.2	- 	3.2	1.9	_;192	
-1	5190	HGL,HI		5.5	1.04	4.6	 	3.2	1.8	_;185	
	5511			8	1.04	3.5	┪=	2.6	2.4	_;190	_
. :	5620	ST,HR		2.7	1.04	2.9	- -	3		_;180	_
:	5711	· HI,MED,HFL		15.5	1.04	4.2	+		1.8	_;190	_
	5751	MI,MED,HFL		18	1.04	3.2	╫	3.1	1.8	_;180	
	731G	HI,ST		4	1.04	3.6		3.5	1.5	_;170	_
tx World	DalcelStyrol GH10	ER,HR		8	1.15			2.5	2.2	_;194	_
·	DalcelStyrol GW30	FR,UVR		10	1.16	3.1 4.3	 -	3 .	1.8	_;178_	-
	DalcelStyrol GW50	FR,UVR	-	5	1.16		-	3	1.2	_;176	_
	DaicelStyrol SK50H	FR	 	4		3.5		2.6	1.3	_;176	1
	DalcelStyrol SK60	FR,UVR	:	4	1.12	5.5	- =	3.7	0.6	_;187	
	400HI-FR	BLK,FR,HI,NAT	-		1.06	4.4	 -	3.6	1.5	_;176	1
- t-	400HI-SI2	BLK,HI,LUB,NAT		-	1.17	3.3	 - 	4	1.7	205;175	Ī
	401HI:-	DEN,IN,EUD,IVAI	10%		1.03	3.1	-	. 3.2	2	185;170	1
F-	403HI	BLK,HI,NAT			1.11	5		5	1.1	210;180	1
	105HI	BLK,HI,NAT	20% GF	-	1.18	6 .	<u> -</u>	8	1.2	200;190	Ti
	SD A 400 HI		30% GF		1.26	11.5		14	1	220;190	1
	SD A 480 HI	AST,BLK,IM	CB	<u> </u>	1.1	3.2	2	3.3		205;175	ļ
	SD C 400 HI	AST,COL,HI	, CF		1.06	6.6	0.6	9.5		210;180	ļ
		AST,BLK,EC,IM	СВ	_	1.1.	2.6	2	2.8		205;175 ,	l
	SD C'480 HI To	AST,COL,EC,HI	CF		1.08	7	0.6	10		210;180	_
100		BLK		4-16	1.05	4.4	1_		1.8-2	;167	1:
	11	BLK,MI .	1_	4-15.9	1.05	1_	1_	1	0.2-1.3	_;190	۲
	11/881	BLK,MI,MGL,MOL	<u> </u>	4-15.9	1,1	5.2			0.9		1=
10	P810/880	BLK,HI,MOL	1	6-10	1.1	4.4	 	 -	<u></u> .	_;190	1-

POLYSTYRENE—IMPACT (Continued)

INJECTION MOLDING (Continued)

近後投入され また こ		The second second				CONTRACTOR TO LAND A	CONTRACTOR OF THE PARTY OF THE		A STATE OF THE STA	2012/12/2015	Total total
976-19-19-19-19-19-19-19-19-19-19-19-19-19-	HUSED-PERTAUKASIOFFAWOMIENE	可能可能是因为的可能是否	列斯克罗斯塔			Tensile			Notched -		
			Filler/	Mell Flow		Strat			and the same of the same	Deflection	
			Reinl	Rale,	No.	Yield,	Elong=				Raling
BEFORE STREET		Features,	Tyne		Density,	1000	ation at a	Modulus,		(66 psl;	四號
the state of the s	Contract to the Contract of th	Applications		min a	g/cc	psi	Yield, %	10E5 psi	(1/B/In/)等	264 psi)	加沙海洋
Manufacturer			Mastersecreterane	0.7	,-	4.2	W	3.7	5		图60用。
Spartech	SC2-1090U	GP,HST,LUB,UVR		2.7	-: 3:	4.2			7	F	
12.7	000 4000	GP,HST,LUB		8.4	_	9		3.8	0.7	<u> ` ` `</u>	<u> </u>
						7	11 11 12	3.4	1.5		
	SC2-1099	GP,HST,LUB		6.6			<u> </u>		2.00.00	-	
	000 4000	GP,HST,LUB	20% GF		1.19	10.5	\mathbb{R}^{2} . \mathcal{F}	9.5	1.1		
	SC2-1220			 		12		12:-	12	· "说道图	(r - 57)
	SC2-1230	GP,HST,LUB	30% GF		1.28	12	=		1 2 2 1 7 3	2	
	200 40000	CCR,GP,HST,LUB	30% GF		1.28	12	_'	12	1:2	<u> </u>	-:
	SC2-12B30	341,1-1	0070 01	-	i ne	3	T	0.6	4.5° > °	200;170	HB
TP Composites	HIPS AS	AST			1.06		<u> </u>				
		có	:		1.15	2.9	_	2.8	1:6	205;190	V-0
2000 pp. 1	HIPS FR	FR		-	1		50	3.4	20.0004	1	1
Total Petrochem.	Atofina 825	FCY,HI	1_	8.	<u> </u>	3.6	نَوْرًا	10.4	!-	1	17.3
Linear a des dos dos		<u></u>				7.1	* *				

INJECTION MOLDING AND STRUCTURAL FOAM

								185 HB
					17 "[1.04"			185 HB
						ıa		
		: \5500/5504	BLD					
	a Chem							

STRUCTURAL FOAM

Angeles and				<u>, </u>		T. 1			4.0	_;199	'
Dow Plastics	Styron 425	GP,HI,MOL:		12	1.04	4.5	<u> 45 % </u>	<u> </u>	1.2:		
	Styron 437	GP,HI,MOL		2.5	1.04	2.3		2.4	1.6	182;167	
		GP,HI,MOL		10	1.04	2.9	<u>:</u> :	<u> </u>	2.7	;180	
	Styron 484C	GP,HI,MOL		3	1.04	3.3	<u> </u>	<u> </u>	2.7	_;192	
	Styron 6087SF	GP,HI,FM		<u>.</u> ;'*:	0.99	<u>= </u>		2.8			V-0/5V
	Styron 6515	GP,HI,MOL.	-	7.5	1.55		<u>.</u>	2.5		_;185	V-0
	Styron 667	GP,MED,HR,HFL		8	1.04.	5.2 ·	<u> </u>		0.3	_;202	
	Styron 688	GP,MED,HR,HFL		2	1.04	6.2			0.3	_;216	
Nais Oberminals		HGL.HI	1	10	1:04	3.8	<u>-</u> 1	2.9	1.7	_;188	HB
Nova Chemicals	5540	MGL;ST		3.5	1.04	4	<u> </u>	2.6	2.3	_;185	HB
原型以及一个	5810	INGESOL		T-:-				'			

SAN COPOLYMER

EXTRUSION

	· · · · ·		I		18	1.07	9.7		5.2	_	_;183	_ 1	
EniChem		Kostil B265	CHR		.10		<u> </u>					HB ·	
销售的	- i	VHI PACE	CHR.HFL		30	1:07	9.6	<u>.</u> .	5.1	_	_;183	ÜD	
	•	Kostil B365	Omini L			4 00	10.9	1	5.2		_;187	HB -	
A May and		Kostil PD-C265	CHR .		20	1.08	10.8	<u> </u>					
製 野の 二十二	•		orin uru		30	1.08	10.6	::	5.2	_	_;187	HB	
髓陽器 400	•	Kostii PD-C365	CHR,HFL	<u> </u>	100 .	1		·=	· · · · · · · · · · · · · · · · · · ·				

EXTRUSION AND INJECTION MOLDING

\$ 10 m			.,	10	1.08	10.9		0.6	216;208	HB
BASF/Styrenics	Luran 368R	GP,TRP		12				0.6	217;210	HB
	Luran 388S	GP,TRP		8	1.08	12.2				
Dow Plastics		CHR,GP,TRP,HR		8	1.08	10	5.4	0.3 ·	_;218	HB
DOM Flashes			=	0 =	1.08	11.9	5.9	0.5	_;218	HB .
17 Table 1	Tyrii 880	CHR,GP,TEN,TRP	<u> </u>	3.5						НВ
\$135°	Tvrll 880B	CHR.GP.TEN.HR	_	3.5	1.08	11.9	5.8	0.0	-1410	110
	Tythooos							• .		

INJECTION MOLDING

Total Total				6	1.07	9.9	3.	5.9	0.2	196;174	
Aclo	SAN900L		<u> </u>	<u> </u>					0.6	216;208	НВ
	Luran 358N	GP,HGL,TRP,HFL		27	1.08	10.4		-			
33.5.7.3.7.7.7	DowSan 100			8 .	1.07			5.5		_;214	
DOM FIGSHES		-	- · ·	10	1:07		1. %	5.6		_;213	[_ '
W.	DowSan 111	<u> </u>	<u> </u>	10		 	 		0.3	215;_	HB:
15 m	Tyril 1011	CHR, MOL, UVR, AUT	· · · · · · · · · · · · · · · · · · ·	7	1.08	9.3	<u> -</u>	5:2			-
	Tyril 125	GP.BLN		25	1.07	6		5.9	0.2	_;212	
122			=	B.7	1.07	9:7		6.1	0.4	_;219	HB .
	Tyril 990	CHR,GP,MOL,TRP	<u> </u>		 		+			_;183	нв
EniChem	Kostil B266	CHR	·	18 .	1.07	9.7	Ļ:	5.2	<u> </u>]_,:00	1.12

SAN COPOLYMER (Continued)

CTION MO	OLDING (Continu	eu)	Isomere Sanction II	New York		Tensile:			Notched Izod	Deflection	UL 94
			Reinf	Mell Flow Rate,			alinn at	Flex Modulus,	impact, ff-ib/in:	Temp, F (66 psl;	Haling (1/8 in.)
	Trade Name and/or Grade	Features; Applications		g/10 min	g/cc	psi 10	Yield, %	10E5 psi:::: 5 .	(1/8 in.) 3 0.5		НВ
lacturers	500TFE5	BLK,LUB,NAT	<u> </u>	-	1.7	11.5	2	8	0.7	215;205	HB
	501	COL	10% CG		1.15		1.5	8	1.1	215;205	V-0
	501 FR	COL,FR,MST,MOL	10% CG		1.39	<u> </u>		8	0.7	215;205	HB
	501 HB	COL,MST,MOL,FLX	10% CG		1.15	11.5	1.5	10	1	220;210	НВ
	503	COL	20% CG	-	11	15		12	1	220;210	V-0
	311 THE R. L.	COL,DS,FR,ST	20% CG		1.46	14	1.5	115	1	220:210	HB.
	503 FR 503 HB	COL,DS,MOL,LW	20% CG		1.22	15	1.5	10	1	215;205	НВ
		BLK,LUB,NAT	20% GF	<u> -</u>	1.3	14	1	<u></u>	1	225;212	НВ
46. 2011	503TFE10	COL	30% CG		1.31	15.5	1.2	16	1	225;210	V-0
	505	COL,DS,FR,ST	30% CG		1.53	15	1	14	1	225;212	НВ
	505 FR	COL, DS, MST, ST	30% CG		1.31	15.5	1.2		1	230;214	НВ
	505 HB	COL	35% CG		1.35	16	1.1	14	1	230;214	НВ
	506	COL,DS;ST,TEN	35% CG		1.35	16	1.1	14		230;217	НВ
	506 HB	COL	40% CG	<u> </u>	1.4	17	1.1	16		230;217	НВ
	507	COL,DS,ST,TEN	40% CG		1.4	17	1.1_	16	- -	220;210	НВ
9000	507 HB	DS,ST,TEN	20% CG	5-15	1.22	15.2		12.2	1.1	225;215	HB
hulman, A.	ComAlloy 240-3020	DS,ST,TEN	30% CG	5-15	1.3	17		15	1.1	230;220	НВ
	ComAlloy 240-3030	DS,ST,TEN	40% CG	5-15	1.4	18.4		18.7	0.7	217;212	
Metaly.	ComAlloy 240-3040	GP	30% GF	2.8	1.3			14.5			 - -
ELPA.	ComAlloy E-13040B	GP,HGL,HST,LUB		_:	1.07	9		5.1	0.4	- 	ᆕ
artech	SC6-1090				1.07	10.5		5	0.6		
	SC6-1096	GP,HGL,HST,LUB			1.07	9 .		5.1	0.4		
	SC6-6090	GP,HGL,HST,LUB		_=_							

STYRENE BUTADIENE BLOCK COPOLYMER

	NG AND EXTRUSION			•		
BLOW MOLDI	NG AND EXTRUSION		1.01 0.71	2.1	0.8 _;163	HB
	I INC	,PRN,TRP,OP _	7.5 1.01 3.7			
Chevron Phillips	K-Resin KR05NW MEI),F/110,1111,101 (=	; ;			

BLOW MOLDING, EXTRUSION AND INJECTION MOLDING

BLOW MOLDING, EXTRUSION	AND INSECTION INCE		9.7	2	1	0.8	_;163	НВ
Chevron Phillips K-Resin KR05	MI,GP,ST,TRP _		3.1	200 1		15		
Total Petrochem: Finaclear 520	HI,TF,PKG	7.5 1.0			.9	0.3	149;_	<u> </u>
Finaclear 530	LGE,MOL	111 .[1.0	. 0.1	<u> </u>				:

EXTRUSION, BLOWN FILM

	Chevron Phillips K-Resin KR10		27 2	1 0.8 _;163 H	3 : :
Ü	######################################	MI,GP,MED,ST _ 7.5	1.01 3.7 2.		
3	Chevron Phillips K-Resin KH10	IMI, dr. iMEDIO ?			
10	PER STATE OF THE S				

EXTRUSION, SHEET

ж	EXTRUSION. '	SHEET	•						.143	НВ	١
-3	EXTRUSION,		<u> </u>	-i	14	1.9	1.5		_,140	110	1
	Maralla A. C. Hardeston and a second		GP,HI,ST,TRP	119		<u> </u>				,	
	Chevron Phillips	K-Resin KK38	Ur,m,or,m								
	Barthar The		•								

EXTRUSION AND INJECTION MOLDING

3.5	EXTI	RUSION A	MD MASCHON M.								1111	
ž,	Yalki.		MD INSECTION IN		 15 .	1.01	3.1		2.2	 -	<u>;</u> 144	
à	Chevro	in Phillips	IC-LICOUR DIVIO	GP,HI,ST,TF	 8-15	0.96	2	800	_ :::	<u> l-</u>		
	Firest	in Phillips ine	Stereon 840A-842A	GP,TRP,BLN	 9.10	l	1					:

INJECTION MO	LDING					44 :		2.2	·	_;170	нв.
Chevron Phillips	K-Resin KR01	MI,GP,MED,PRN		8	1.01	3.7	-		0.8	_;163	НВ.
	K-Resin KR03	MI,GP,MED,ST		7.5. 7.5		3.7	<u>-</u>	2.1	0.8		НВ
	K-Resin KR03NW	GP,MED,PRN,TRP	-	6		4.1		2.7	3.5	_;168	اـــــــــــــــــــــــــــــــــــــ
	K-Resin KR52	GP,HGL,HI	<u> -</u>	<u> </u>		J					